Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	14279	"709"/$.ccls. and @ad<"20001121"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 14:18
S2	2502	("709"/$.ccls. and @ad<"20001121") and Agent$	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 12:09
S3	595	("709"/$.ccls. and @ad<"20001121") and ((search$5 Select$4) near10 ((software adj agent$4) agent$ (servic$3 adj agent)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/20 14:24
S4	259	(("709"/$.ccls. and @ad<"20001121") and ((search$5 Select$4) near10 ((software adj agent$4) agent$ (servic$3 adj agent)))) and ((negotiat$4 request$4 solicit%5) near2 (servic$3 list$4 director$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 14:19
S5	7	((("709"/$.ccls. and @ad<"20001121") and ((search$5 Select$4) near10 ((software adj agent$4) agent$ (servic$3 adj agent)))) and ((negotiat$4 request$4 solicit%5) near2 (servic$3 list$4 director$4))) and ((accept$ refuse$4) near2 (term$3 condition$3 rule$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 15:36
S6	778	709/203,223,202,317,313,201,224.ccls. and 707/10.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 13:20
S7	9671	709/203,223,202,317,313,201,224.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 13:19
S8	667	(709/203,223,202,317,313,201,224.ccls. and 707/10.ccls.) and @ad<"20001121"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 13:21
S9	55	((709/203,223,202,317,313,201,224.ccls. and 707/10.ccls.) and @ad<"20001121") and ((search$5 Select$4) near5 ((software adj agent$4) agent$ (servic$3 adj agent)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 14:28
S10	30	((709/203,223,202,317,313,201,224.ccls. and 707/10.ccls.) and @ad<"20001121") and ((hierarch$4 director$4 level$4)near5 ((software adj agent$4) agent$ (servic$3 adj agent)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 13:25
S11	17	((709/203,223,202,317,313,201,224.ccls. and 707/10.ccls.) and @ad<"20001121") and ((hierarch$4 director$4)near5 ((software adj agent$4) agent$ (servic$3 adj agent)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 13:25
S12	7	((("709"/$.ccls. and @ad<"20001121") and ((search$5 Select$4) near10 ((software adj agent$4) agent$ (servic$3 adj agent)))) and ((negotiat$4 request$4 solicit%5) near2 (servic$3 list$4 director$4))) and ((accept$ refuse$4) near2 (term$3 condition$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 08:49
S13	13	((("709"/$.ccls. and @ad<"20001121") and ((search$5 Select$4) near10 ((software adj agent$4) agent$ (servic$3 adj agent)))) and ((negotiat$4 request$4 solicit%5) near2 (servic$3 list$4 director$4))) and ((accept$ refuse$4) near10 (term$3 condition$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 14:04

S14	235	((("709"/$.ccls. and @ad<"20001121") and ((search$5 Select$4) near10 ((software adj agent$4) agent$ (servic$3 adj agent)))) and ((negotiat$4 request$4 solicit%5) near2 (servic$3 list$4 director$4))) and (term$3 condition$3 rule$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 14:17
S15	155752	((search$5 Select$4) near10 ((software adj agent$4) agent$ (servic$3 adj agent)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 14:18
S16	116663	(((search$5 Select$4) near10 ((software adj agent$4) agent$ (servic$3 adj agent)))) and @ad<"20001121"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 14:30
S17	823	((((search$5 Select$4) near10 ((software adj agent$4) agent$ (servic$3 adj agent)))) and @ad<"20001121") and ((negotiat$4 request$4 solicit%5) near2 (servic$3 list$4 director$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 15:42
S18	37	(((((search$5 Select$4) near10 ((software adj agent$4) agent$ (servic$3 adj agent)))) and @ad<"20001121") and ((negotiat$4 request$4 solicit%5) near2 (servic$3 list$4 director$4))) and ((accept$ refuse$4) near2 (term$3 condition$3 rule$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 15:40
S19	127417	((search$5 Select$4) near5 ((software adj agent$4) agent$ (servic$3 adj agent) (directory adj service adj agent)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 14:33
S20	94859	(((search$5 Select$4) near5 ((software adj agent$4) agent$ (servic$3 adj agent) (directory adj service adj agent)))) and @ad<"20001121"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 07:39
S21	711	((((search$5 Select$4) near5 ((software adj agent$4) agent$ (servic$3 adj agent) (directory adj service adj agent)))) and @ad<"20001121") and ((negotiat$4 request$4 solicit%5) near2 (servic$3 list$4 director$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 15:40
S22	877	((((search$5 Select$4) near5 ((software adj agent$4) agent$ (servic$3 adj agent) (directory adj service adj agent)))) and @ad<"20001121") and ((negotiat$4 request$4 solicit$5) near5 (servic$3 list$4 director$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 14:31
S23	41	(((((search$5 Select$4) near5 ((software adj agent$4) agent$ (servic$3 adj agent) (directory adj service adj agent)))) and @ad<"20001121") and ((negotiat$4 request$4 solicit$5) near5 (servic$3 list$4 director$4))) and ((accept$ refuse$4) near2 (term$3 condition$3 rule$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/20 14:39
S24	0	((search$5 Select$4) near5 ((software adj agent$4)and (agent$) and (servic$3 adj agent) and (directory adj service adj agent)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 14:33
S25	2	"6085176".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 15:37
S26	10439	(process$4 intelligent$ software (directory adj service)) adj agent	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 15:48
S27	7474	((process$4 intelligent$ software (directory adj service)) adj agent) and @ad<"20001121"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 15:48

S28	55	((((process$4 intelligent$ software (directory adj service)) adj agent) and @ad<"20001121") and ((accept$ refuse$4) near2 (term$3 condition$3))) and ((negotiat$4 request$4 solicit%5) near2 (servic$3 list$4 director$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/20 14:37
S29	30	directory adj service adj agent	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 15:48
S30	24	(directory adj service adj agent) and @ad<"20001121"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 15:48
S31	0	((directory adj service adj agent) and @ad<"20001121") and ((accept$ refuse$4) near2 (term$3 condition$3 rule$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/22 15:50
S32	102	(((process$4 intelligent$ software (directory adj service)) adj agent) and @ad<"20001121") and ((accept$ refuse$4) near2 (term$3 condition$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/23 09:01
S33	1	"6678679".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/23 14:04
S34	2	"6085176".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/23 16:03
S35	2	"6418463".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/23 16:03
S36	0	"7678679".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/20 13:17
S37	2	"6678679".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/20 13:25
S38	27	(find$5 locat$5 spot$5 explor$5) near5 (directory list collection) near (service software) near5 (agents)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/20 13:26
S39	1352	("709"/$.ccls.) and ((search$5 Select$4) near10 ((software adj agent$4) agent$ (servic$3 adj agent)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/20 14:25
S40	7	((find$5 locat$5 spot$5 explor$5) near5 (directory list collection) near (service software) near5 (agents)) and ("709"/$.ccls.) and ((search$5 Select$4) near10 ((software adj agent$4) agent$ (servic$3 adj agent)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/20 14:25
S41	0	(start$5 initiat$5 originat$5) near3 (search$5 look$5 inquir$5) near(software adj agent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/20 14:39

S42	0	(start$5 initiat$5 originat$5) near3 (search$5 look$5 inquir$5) near10 (software adj agent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/20 14:39
S43	114	((search$5 Select$4) near5 ((software adj agent$4) agent$ (servic$3 adj agent) (directory adj service adj agent)) and ((negotiat$4 request$4 solicit$5) near5 (servic$3 list$4 director$4))) and ((accept$ refuse$4) near2 (term$3 condition$3 rule$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 11:08
S44	0	(search adj agents) near10 (plurality various) near5 (consignment market) near10 (director$5 list$5 site)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/20 15:29
S45	0	(search adj agents) near10 (plurality various) near5 (consignment market) near10 (director$5 list$5 site node)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/20 15:29
S46	1	(search adj agents) near10 (consignment market) near10 (director$5 list$5 site node)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/20 15:30
S47	3353	(consignment market) near10 (director$5 list$5 site node)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/20 15:31
S48	189	(consignment market) adj (director$5 list$5 site node)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/20 15:31
S49	22	(connect$5 link$5 join$5 attach$5) near10 (distributed adj director$5) and ((software adj agent) agents)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/20 17:00
S50	176	distributed adj search	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/20 17:00
S51	23	(distributed adj search) and (software adj agent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/21 08:03
S52	0	((recursive) adj search) and (software adj agent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/21 08:04
S53	25	((distribut$5) adj search) and (software adj agent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/21 08:04
S54	2	"6446108".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 09:27
S55	23	((distributed recursive) adj search) and (software adj agent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 09:33

S56	1	(09/821228) and Petters	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 09:42
S57	4	(Directory adj agent adj (model service))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 09:47
S58	0	(search$5 query$5) and ((local own resident) near10 (Directory adj agent adj (model service)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 09:49
S59	4	(search$5 query$5) and (directory adj agent adj (model service))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 09:50
S60	2	(search$5 query$5) and (directory adj service adj agent) and (software adj agent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 09:58
S61	120	((search$5 query$5) near5 (directory adj service)) and ((link$5 join$5 connect$5) near10 (directory adj service))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 13:26
S62	6251	707/2,3,4,5,10.ccls. and ((software adj agent$2 or object$5 or module$5) and (search$5 or quer$5 or retriev$5 or access$5) and (director$5 or librar$5 or log$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 09:08
S63	1980	707/2,3,4,5,10.ccls. and ((software adj agent$2 or object$5 or module$5) same(search$5 or quer$5 or retriev$5 or access$5) same (director$5 or librar$5 or log$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 13:32
S64	749	707/3.ccls. and ((software adj agent$2 or object$5 or module$5) same(search$5 or quer$5 or retriev$5 or access$5) same (director$5 or librar$5 or log$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 13:33
S65	20	(707/2,3,4,5,10.ccls. and ((software adj agent$2 or object$5 or module$5) same(search$5 or quer$5 or retriev$5 or access$5) same (director$5 or librar$5 or log$5))) and ((accept$ refuse$4) near2 (term$3 condition$3)) and ((negotiat$4 request$4 solicit%5) near2 (servic$3 list$4 director$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/07/22 13:36
S66	145	707/2,3,4,5,10.ccls. and ((software adj agent) and (search$5 or quer$5 or retriev$5 or access$5) and (director$5 or librar$5 or log$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 15:20
S67	0	(object adj resource adj broker) near10 agent	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 15:21
S68	25	object adj resource adj broker	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 15:29
S69	1	(link$5 connect$5 attach$5) near10 (multiple various product) near10 (directory adj service adj agent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 15:32

S70	0	(offer$5 vend$5 display$5 provid$5) near10 (multiple various product) near10 (directory adj service adj agent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 15:34
S71	206534	(offer$5 vend$5 display$5 provid$5) near10 (multiple various product)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 15:42
S72	826	((offer$5 vend$5 display$5 provid$5) near10 (multiple various product)) and ((search$5 Select$4) near10 ((software adj agent$4) agent$ (servic$3 adj agent)) and ((negotiat$4 request$4 solicit%5) near2 (servic$3 list$4 director$4)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 15:44
S73	150	((offer$5 vend$5 display$5 provid$5) near10 (multiple various product)) and ((search$5 Select$4) adj ((software adj agent$4) agent$ (servic$3 adj agent)) and ((negotiat$4 request$4 solicit%5) near2 (servic$3 list$4 director$4)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 15:50
S74	2	"6085175".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 15:51
S75	2	"5960422".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 15:52
S76	2	"5826261".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 15:56
S77	2	"5978799".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 15:58
S78	2	"5822747".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 16:01
S79	2	"6064971".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/22 16:29
S80	58	"709"/$.ccls. and (((search$5 Select$4) near5 ((software adj agent$4) (servic$3 adj agent) (directory adj service adj agent))))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 08:24
S81	2	"6421733".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 08:24
S82	13	((("709"/$.ccls.) and ((search$5 Select$4) near10 ((software adj agent$4) agent$ (servic$3 adj agent)))) and ((negotiat$4 request$4 solicit%5) near2 (servic$3 list$4 director$4))) and ((accept$ refuse$4) near2 (term$3 condition$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 09:03

S83	5	(((709/203,223,202,317,313,201,224.ccls.) and ((search$5 Select$4) near10 ((software adj agent$4) agent$ (servic$3 adj agent)))) and ((negotiat$4 request$4 solicit%5) near2 (servic$3 list$4 director$4))) and ((accept$ refuse$4) near2 (term$3 condition$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 09:41
S84	1	(select$5) near4 (terminat$5) near4 (search) near3 ((select$5) near4 (director$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 11:36
S85	1	(select$5) near4 (terminat$5) near4 (search) near3 ((select$5) near4 (director$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 09:04
S86	0	((("709"/$.ccls.) and ((search$5 Select$4) near10 ((software adj agent$4) (servic$3 adj agent)))) and ((negotiat$4 request$4 solicit%5) near2 (servic$3 list$4 director$4))) and ((accept$ refuse$4) near2 (term$3 condition$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 09:02
S87	0	((("709"/$.ccls.) and ((search$5 Select$4) near10 ((software adj agent$4) (servic$3 adj agent)))) and ((negotiat$4 request$4 solicit%5) near2 (servic$3 list$4 director$4))) and ((accept$ refuse$4) near2 (term$3 condition$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 09:03
S88	0	(((709/203,223,202,317,313,201,224.ccls.) and ((search$5 Select$4) near10 ((software adj agent$4) (servic$3 adj agent)))) and ((negotiat$4 request$4 solicit%5) near2 (servic$3 list$4 director$4))) and ((accept$ refuse$4) near2 (term$3 condition$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 09:04
S89	0	(((709/203,223,202,317,313,201,224.ccls.) and ((search$5 Select$4) near10 ((software adj agent$4)(servic$3 adj agent)))) and ((negotiat$4 request$4 solicit%5) near2 (servic$3 list$4 director$4))) and ((accept$ refuse$4) near2 (term$3 condition$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 09:06
S90	0	707/2,3,4,5,10.ccls. and (select$5) near4 (terminat$5) near4 (search) near3 ((select$5) near4 (director$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 09:38
S91	15	707/2,3,4,5,10.ccls. and ((search$5 Select$4) near5 ((software adj agent$4) agent$ (servic$3 adj agent) (directory adj service adj agent)) and ((negotiat$4 request$4 solicit$5) near5 (servic$3 list$4 director$4))) and ((accept$ refuse$4) near2 (term$3 condition$3 rule$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 09:22
S92	27	((search$5 Select$4) near5 ((software adj agent$4) (servic$3 adj agent) (directory adj service adj agent)) and ((negotiat$4 request$4 solicit$5) near5 (servic$3 list$4 director$4))) and ((accept$ refuse$4) near2 (term$3 condition$3 rule$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 09:30
S93	7	707/2,3,4,5,10.ccls. and (consignment market) adj (director$5 list$5 site node)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 09:41
S94	7	707/2,3,4,5,10.ccls. and (consignment market) adj (director$5 list$5 site node)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 09:41

S95	8	(709/203,223,202,317,313,201,224.ccls.) and (consignment market) adj (director$5 list$5 site node)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 09:42
S96	142628	((search$5 Select$4)) near5 ((software adj agent$4) agent$ (servic$3 adj agent) (directory adj service adj agent))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 11:08
S97	2	S96 and (709/203,223,202,317,313,201,224.ccls.) and (consignment market) adj (director$5 list$5 site node)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 11:35
S98	0	(select$5) near4 (terminat$5) near4 (search) near3 ((select$5) near4 (director$5)) and((search$5 Select$4)) near5 ((software adj agent$4)(servic$3 adj agent) (directory adj service adj agent))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 11:46

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M. A. Bauer, J. M. Bennett, J. MacAuley, A. D. Marshall
October 1991 **Proceedings of the 1991 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(1.32 MB) Additional Information: full citation, abstract, references, citings

The X.500 Standard has been proposed as the basis for a directory service in distributed systems. There is some question as to whether it is suited to this use. This paper describes the initial work on the development of an X.500 simulation testbed to be used in investigating the behaviour of X.500 directories in large distributed environments. The initial version of the testbed has been developed using the Quipu prototype implementation of X.500 and the Nest network simulation tool. The long-te ...

2 A model for naming, addressing and routing

Bernard M. Hauzeur
December 1986 **ACM Transactions on Information Systems (TOIS)**, Volume 4 Issue 4

Full text available: pdf(1.42 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Naming and addressing are areas in which there is still a need for clarification. Many definitions for names, addresses, and routes have been proposed, but the exact relations among these concepts are obscure. A taxonomy of names, addresses, and routes is presented. First, we identify names and routes as the essential concepts of communication. Then, addresses are introduced as an intermediate form that eases the process of mapping between names and routes; an original definition of an addr ...

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1 Towards a standardization of multi-agent system framework
Roberto A. Flores-Mendez
June 1999 **Crossroads**, Volume 5 Issue 4
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2 SOAP: social agents providing people with useful information
Angi Voss, Thomas Kreifelts
November 1997 **Proceedings of the international ACM SIGGROUP conference on Supporting group work : the integration challenge: the integration challenge**
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Keywords: World Wide Web, collaborative filtering, multi-agent systems, recommender systems, software agents

3 CASMIR—a community of software agents collaborating in order to retrieve multimedia data
Bredan Berney, Elaine Ferneley
April 1999 **Proceedings of the third annual conference on Autonomous Agents**
Full text available: pdf(230.38 KB) Additional Information: full citation, references, index terms

Keywords: collaborative software agents, collaborative user profiling, multimedia information retrieval

4 A proposal for an open DSS protocol
Dawn G. Gregg, Michael Goul
November 1999 **Communications of the ACM**, Volume 42 Issue 11
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5 Information delivery systems: an exploration of Web pull and push technologies
Julie E. Kendall, Kenneth E. Kendall
April 1999 **Communications of the AIS**
Full text available: pdf(658.33 KB) Additional Information: full citation, references, citings, index terms

6 Autonomous interface agents
Henry Lieberman
March 1997 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Full text available: pdf(950.77 KB) Additional Information: full citation, references, citings, index terms

Keywords: Web, agents, autonomous agents, browsing, interface agents, learning, search

7 Agent technology in computer science and engineering curriculum
Yi Shang, Hongchi Shi, Su-Shing Chen
July 2000 **ACM SIGCSE Bulletin , Proceedings of the 5th annual SIGCSE/SIGCUE ITiCSEconference on Innovation and technology in computer science education**, Volume 32 Issue 3
Full text available: pdf(464.32 KB) Additional Information: full citation, abstract, references, citings, index terms

In recent years, agent technology has been used increasingly in information management and distributed computing. A CSE curriculum that cultivates the knowledge of agent technology will increase the likelihood that the next generation of IT professionals have the background needed to design and develop software systems that are scalable, reliable, adaptable, and secure. In this paper, we present the rationale and our practice in incorporating agent technology into the CSE curriculum. We develop ...

8 Evolving intelligent text-based agents
Edmund S. Yu, Ping C. Koo, Elizabeth D. Liddy
June 2000 **Proceedings of the fourth international conference on Autonomous agents**
Full text available: pdf(1.14 MB) Additional Information: full citation, references, citings, index terms

Keywords: evolution of agents, information agents, learning and adaptation, multi-agent teams

9 The agent building and learning environment
Joseph P. Bigus
June 2000 **Proceedings of the fourth international conference on Autonomous agents**
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Keywords: JavaBeans, fuzzy logic, genetic algorithms, intelligent agents, neural networks, software agents

10 A human centered agent-based architecture for electronic brokerage
E. Damiani, R. Khosla
February 1999 **Proceedings of the 1999 ACM symposium on Applied computing**
Full text available: pdf(757.12 KB) Additional Information: full citation, references, index terms

11 Digital newspapers explore marketing on the Internet
Jonathan W. Palmer, Lars Bo Eriksen
September 1999 **Communications of the ACM**, Volume 42 Issue 9
Full text available: pdf(398.18 KB) html(34.48 KB) Additional Information: full citation, references, citings, index terms

12 Architecture and performance evaluation of a massive multi-agent system
Gaku Yamamoto, Yuhichi Nakamura
April 1999 **Proceedings of the third annual conference on Autonomous Agents**
Full text available: pdf(845.24 KB) Additional Information: full citation, references, citings, index terms

Keywords: electronic commerce, mobile agent, multi agent

13 Efficient mechanisms for the supply of services in multi-agent environments
Nir Vulkan, Nicholas R. Jennings
October 1998 **Proceedings of the first international conference on Information and computation economies**
Full text available: pdf(1.36 MB) Additional Information: full citation, references, citings, index terms

14 Using agents to personalize the Web
Christoph G. Thomas, Gerhard Fischer
January 1997 **Proceedings of the 2nd international conference on Intelligent user interfaces**
Full text available: pdf(1.49 MB) Additional Information: full citation, references, citings, index terms

Keywords: World-Wide Web, agents and agent-based interaction, evaluation of agent-based interfaces, information overload, personal information spaces

15 ERCIM workshop on "User interfaces for all"
Constantine Stephanidis
January 1996 **ACM SIGCAPH Computers and the Physically Handicapped**, Issue 54
Full text available: pdf(275.17 KB) Additional Information: full citation, index terms

16 A construction approach for software agents using components

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Liu Hong, Lin Zongkai, Zeng Guangzhou
May 1999 **ACM SIGSOFT Software Engineering Notes**, Volume 24 Issue 3

Full text available: pdf(469.76 KB) Additional Information: full citation, abstract, index terms

This paper presents a construction approach for software agents. A software agent is regarded as a main frame plus some components, and it is constructed by selecting suitable main frame and software components, assembling and running through the control mechanism on the main frame. The multi-agent system is organised on the Client/Server model. The developed system based on this method profits from software reuse in the distributed environment.

Keywords: constructing method, software agent, software component, software reuse

17 A semantics approach for KQML—a general purpose communication language for software agents

Yannis Labrou, Tim Finin
November 1994 **Proceedings of the third international conference on Information and knowledge management**

Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, citings, index terms

We investigate the semantics for Knowledge Query Manipulation Language (KQML) and we propose a semantic framework for the language. KQML is a language and a protocol to support communication between software agents. Based on ideas from speech act theory, we propose a semantic description for KQML that associates descriptions of the cognitive states of agents with the use of the language's primitives (performatives). We use this approach to describe the semantics for the basic set of KQML pe ...

18 Special features: Tutorial: mobile software agents for dynamic routing

Kwindla Hultman Kramer, Nelson Minar, Pattie Maes
April 1999 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 3 Issue 2

Full text available: pdf(876.17 KB) Additional Information: full citation, abstract, references, citings

As portable digital devices of all kinds proliferate, wireless networks that allow for flexible, timely and efficient data communication become more and more important. Networks for mobile devices are quite difficult to design for several reasons, chief among them the problem of routing packets across networks characterized by constantly changing topology. In this article we describe ways to address the routing problem using a new technique for 'distributed programming, mobile software agents.

19 Software agents and intelligent object fusion

Cyrus F. Nourani
January 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 1

Full text available: pdf(130.36 KB) Additional Information: full citation, abstract, index terms

Techniques for modular software design are presented applying *software agents.* The conceptual designs are domain independent and make use of specific domain aspects applying *Multiagent AI.* The stages of conceptualization, design and implementation are defined by new techniques coordinated by objects. Software systems are designed by knowledge acquisition, specification, and multiagent implementations. Multiagent implementations are defined for the modular designs, applying our rece ...

20 A software agent for performance improvement of existing information retrieval systems

Bernard J. Jansen

December 1998 **Proceedings of the 4th international conference on Intelligent user interfaces**

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Keywords: adaptive interfaces, information retrieval, interface agents, software agents, software integration

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1 Descriptive names in X.500

G. W. Neufeld

August 1989 **ACM SIGCOMM Computer Communication Review , Symposium proceedings on Communications architectures & protocols**, Volume 19 Issue 4

Full text available: pdf(912.33 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a new name form for the OSI X.500 directory system. The primary function of the directory is to provide a name-to-object look-up facility for OSI objects. The directory consists of a set of agents and a database which is distributed among the agents. The directory database is structured as a tree where each node, or entry, corresponds to an object. An entry consists of a set of attributes where one or more attributes are designated as the object name relative to the entr ...

2 Distributed environment: A simulation model for X.500 directories: initial experiences

M. A. Bauer, J. M. Bennett, J. MacAuley, A. D. Marshall

October 1991 **Proceedings of the 1991 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(1.32 MB) Additional Information: full citation, abstract, references, citings

The X.500 Standard has been proposed as the basis for a directory service in distributed systems. There is some question as to whether it is suited to this use. This paper describes the initial work on the development of an X.500 simulation testbed to be used in investigating the behaviour of X.500 directories in large distributed environments. The initial version of the testbed has been developed using the Quipu prototype implementation of X.500 and the Nest network simulation tool. The long-te ...

3 Distributed environment: Analysis of X.500 distributed directory refresh strategies

David W. Bachmann, Michael A. Bauer, J. Michael Bennett, Guy A. Fasulo, Michael H. Kamlet, Kevin H. Klinge, Sailesh Makkapati, Jacob Slonim, Toby J. Teorey

October 1991 **Proceedings of the 1991 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, references, citings

Refresh strategies for distributed database directories, commonly recommended for the X.500 standard, are defined and analytically modeled for variations on push/pull and total/differential options under ideal asynchronous control conditions. The models are implemented in a HyperCard-based tool called DirMod ("Directory Model"). Experimental test

results show an important elapsed time/performance trade-off among the different strategies, and test data contribute to the verification of the models ...

4 Network information centers (NICs): is there one on your horizon?

Susan Calcari, Priscilla Huston, Jan Eveleth, Linda Hutchison, Jerry Martin

November 1993 **Proceedings of the 21st annual ACM SIGUCCS conference on User services**

Full text available: pdf(1.09 MB) Additional Information: full citation, index terms

5 A model for naming, addressing and routing

Bernard M. Hauzeur

December 1986 **ACM Transactions on Information Systems (TOIS)**, Volume 4 Issue 4

Full text available: pdf(1.42 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Naming and addressing are areas in which there is still a need for clarification. Many definitions for names, addresses, and routes have been proposed, but the exact relations among these concepts are obscure. A taxonomy of names, addresses, and routes is presented. First, we identify names and routes as the essential concepts of communication. Then, addresses are introduced as an intermediate form that eases the process of mapping between names and routes; an original definition of an addr ...

6 A network environment for computer-supported cooperative work

J. Whitescarver, P. Mukherji, M. Turoff, R. J. DeBlock, R. M. Czech, B. K. Paul

August 1987 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM workshop on Frontiers in computer communications technology**, Volume 17 Issue 5

Full text available: pdf(1.37 MB) Additional Information: full citation, abstract, references, index terms

A second generation computer supported cooperative work system called Electronic Information Exchange System (EIES2) is described in this paper. The EIES2 communications environment allows users to network across geographical constraints using asynchronous or synchronous communications. The architecture of the network environment is decentralized, and is implemented using modern standards, and an easy-to-use user interface. At the heart of EIES2 is a high-level, object oriented p ...

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